

11/21/00  
JC630 U.S. PTO  
A

11-22-00

09/717728 PRO  
JC630 U.S. PTO  
11/21/00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: C. TODD PRAISNER; ROY H. KIPP, JR.; MELISSA T. BALBACH; JAMES R. HOLLAND, IV; AND WILLIAM R. LEISEROWITZ

Filed: CONCURRENTLY HEREWITH

For: SYSTEM AND METHOD FOR PURCHASING  
MANAGEMENT UTILIZING DYNAMIC PAYMENT CARDS  
AND DYNAMIC APPROVAL PARAMETERS

Serial No.: UNKNOWN

Group Art Unit: UNKNOWN

Examiner: UNKNOWN

Atty Docket No.: WRKS:002

EXPRESS MAIL CERTIFICATION

NUMBER: EL703720028US

I hereby certify that this paper or fee is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service, postage prepaid, under 37 C.F.R. 1.10 on the date indicated below and is addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231.

Signature

Date of Deposit

BOX PATENT APPLICATION  
Assistant Commissioner For Patents  
Washington, D.C. 20231

Dear Sir:

Transmitted herewith for filing are:

- New Patent Application consisting of 40 pages and 4 sheets of Figs.
- Continued Prosecution Application (37 CFR §1.53(d)) -- The parent application is USSN \_\_\_\_\_ filed on \_\_\_\_\_. The prior Examiner was \_\_\_\_\_ in Group Art Unit \_\_\_\_\_.
- Response to Missing Parts

- Assignment and Recordation Cover sheet -- the parent application is assigned of record to \_\_\_\_\_.
- Inventors' Declaration/Power of Attorney
- Information Disclosure Statement
- Petition for a \_\_\_\_\_ month extension of time
- Response to Office Action
- Preliminary Amendment
- Formal Drawings
- Informal Drawings
- Notice of Appeal
- An Appeal Brief (an original and two copies)
- Check in the amount of \$530
- The Commissioner is authorized to deduct any requisite fees under 37 CFR 1.16 to 1.21 from, or deposit any credits to, Deposit Account No. 10-1205/WRKS:002.
- Postcard. Please date stamp and mail this postcard to acknowledge receipt of the enclosed documents.
- Other: Election Under 37 CFR §§3.71 q and 3.73 and Power of Attorney;  
and Verified Statement Claiming Small Entity Status

**FEE CALCULATION:**

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	<b>Total Claims (37 CFR 1.16(e))</b>	<u>35 - 20 =</u>	15	x \$ 18.00	\$270
	<b>Independent Claims (37 CFR 1.16(b))</b>	<u>4 - 3 =</u>	1	x \$ 80.00	\$80
	<b>MULTIPLE DEPENDENT CLAIMS (if applicable) (37 CFR 1.16(d))</b>			x \$ 270.00	\$ 0
				<b>Basic Fee (37 CFR 1.16(a))</b>	<b>\$710</b>
				<b>Total of above Calculations =</b>	<b>\$1060</b>
	Reduction by 50% for filing by Small Entity (Note: 37 CFR 1.9, 1.27, 1.28)				\$530
	Surcharge for submission of Response to Missing Parts if applicable (\$130)				\$ 0
	<b>ASSIGNMENT FEE (IF FILED WITH APPLICATION)</b>				\$ 0
				<b>TOTAL =</b>	<b>\$530</b>

The Examiner is invited to contact the undersigned at 512-347-1611 with any questions or comments, or to otherwise facilitate expeditious prosecution of the application.

Respectfully submitted,

  
 Brian W. Peterman  
 Registration No. 37,908  
 Attorney for Applicant

O'KEEFE, EGAN & PETERMAN, L.L.P.  
 1101 Capital of Texas Highway South  
 Building C, Suite 200  
 Austin, Texas 78746  
 512-347-1611  
 512-347-1615 (Fax)

---

VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) & 1.27(c)) – SMALL BUSINESS CONCERN

DOCKET NO.  
WRKS:002

---

Applicant or Patentee: C. TODD PRAISNER, et al.

Application No.: UNKNOWN

Title: SYSTEM AND METHOD FOR PURCHASING MANAGEMENT UTILIZING  
DYNAMIC PAYMENT CARDS AND DYNAMIC APPROVAL  
PARAMETERS

I hereby declare that I am:

the owner of the small business concern identified below:  
 an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF SMALL BUSINESS CONCERN:

Works.com Operating Company

ADDRESS OF SMALL BUSINESS CONCERN:

6801 N. Capital of Texas Hwy.

Building 1

Austin, TX 78731-1716

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention described in:

the specification filed herewith with title as listed above.  
 the application identified above.  
 the patent identified above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights in the invention must file separate verified statements averring to

their status as small entities, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization having any rights in the invention is listed below:

no such person, concern or organization exists.  
 each such person, concern or organization is listed below:

Separate verified statement is required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: Roy H. Kipp, Jr.

TITLE OF PERSON IF OTHER THAN OWNER: Chief Technical Officer

ADDRESS OF PERSON SIGNING:  
Works.com Operating Company  
6801 N. Capital of Texas Hwy.  
Building 1  
Austin, TX 78731-1716

SIGNATURE:  DATE: 11/16/00

Patent Application for

**SYSTEM AND METHOD FOR PURCHASING MANAGEMENT UTILIZING  
DYNAMIC PAYMENT CARDS AND DYNAMIC APPROVAL PARAMETERS**

5 Inventors: C. Todd Praisner; Roy H. Kipp, Jr.; Melissa T. Balbach;  
James R. Holland, IV; and William R. Leiserowitz

**Related Applications**

The present application is a continuation-in-part application of the following co-pending application: Application SN 09/409,316 that is entitled "Method and System for Online Business Purchasing," which was filed on September 28, 1999. The present application also claims priority on co-pending United States provisional patent application SN 60/242,493 filed on October 23, 2000, the entire text and all contents of which is hereby expressly incorporated by reference in its entirety.

**Technical Field of the Invention**

This invention relates to purchasing management systems for product and service procurement and related purchase mechanisms.

**Background**

Most companies have a wide variety of purchasing needs. Two general categories help 20 define these purchasing needs -- direct spending and indirect spending. Direct spending refers to direct company expenditures, such as expenditures for raw materials or components that are needed for the production of goods. Direct expenditures often occur through direct vendor supply

and payment agreements. Indirect spending refers to non-direct company expenditures, such as travel and entertainment expenditures, industrial supplies, computer systems, office supplies and other indirect expenditures. Indirect spending is typically very difficult for companies to manage and control efficiently. For example, indirect spending that occurs as individual expense purchases, such as travel and entertainment spending, is often handled through reimbursement procedures, where employees must first pay for the expenditure and then seek reimbursement. Reimbursement procedures, however, are typically inefficient and are often undesirable to employees who must make the expenditure and then hope that they are doing so within approved guidelines so that they will get reimbursed. Indirect spending purchases made by professional purchasers (e.g., purchases by office managers, information technology (IT) staff, etc.) are often made with net 30 day terms. These indirect purchases are often be handled through manual purchase request and check authorization procedures; however, these procedures are typically even more inefficient than reimbursement procedures.

Because of inefficient procedures typically utilized, purchasing management often generates significant costs for most companies. This purchasing management is made even more difficult and complex due to a wide variety of markets from which most companies purchase products and services. These markets include, for example, network enabled markets, such as purchases through Internet web sites, as well as other more traditional markets. Regardless of the product or service being purchased or the market from where the product and service is being purchased, it is desirable for companies to have the ability to manage the purchasing of those products and services.

With respect to how companies make purchases, banks and financial institutions offer a variety of payment mechanisms, such as credit cards cards, stored value cards and smart cards. These offerings, however, are all of limited usefulness as a tool for purchasing management. Credit and debit cards can be set up as company cards, where the company or its accounts are responsible for purchases, or as individual cards, where the employee or the employee's accounts are responsible for purchases. Companies are typically very reluctant to issue company credit or debit cards, thereby giving employees the ability to create company debt or expend company funds without pre-approval. If employee accounts are used, the transaction is simply a reimbursement transaction.

Stored value cards are essentially pre-paid credit cards with pre-determined spending or credit limits. These stored value cards have been marketed to consumer markets, for example, as a mechanism to allow parents to control the spending of their children while providing the ease of credit card purchases. Smart cards are cards that include integrated circuits. The increased memory and processing power of smart cards have been advertised as potentially allowing banks and financial institutions to provide increased utility, functionality and convenience to users. One big downside to smart cards, however, is that smart cards will require a new infrastructure to be adopted and put in place by merchants before any newly developed features may be utilized.

Purchasing card programs are payment mechanisms offered by banks and financial institutions that are more specifically directed to help company payment needs. Purchasing cards are essentially company credit cards with a few additional control features that allow companies to pre-approve cards using a few static limitations, such as pre-approved vendors, pre-approved

transaction amount limits, and pre-approved overall credit limits. Once set up, these purchasing cards essentially act as credit cards with pre-determined static limitations. Thus, although purchasing cards allow more control than do typical credit cards, the company still has no control over specific purchases initiated by employees because the card limitations are static and spending requirements have all been pre-approved for a given card. In short, purchases may be completed without ever being reviewed or approved in light of company purchasing policies. Purchasing cards, therefore, fall short of providing a desirable purchasing management solution.

## **Summary of the Invention**

The present invention provides systems and methods for efficiently managing company purchases through the use of dynamic payment identifiers that allow purchases to be processed in view of dynamic approval parameters that are linked to the purchase request for which a specific transaction is being initiated. More particularly, dynamic payment cards are utilized as dynamic payment identifiers that are provided to company employees, and dynamic approval parameters are linked to employee purchase requests that are processed through a purchasing management system, which is preferably server-based. The systems and methods of the present invention further allow for the efficient purchasing management of products and services purchased from any desired market, including both network enabled markets and non-network enabled markets. In addition, purchasing management controls are provided that allow purchasing managers to control a wide range of purchasing needs through automatic and manual approval mechanisms.

In one embodiment, the present invention is a method for purchasing management utilizing dynamic payment identifiers, such as dynamic payment cards, to provide control over

10 purchases, including determining a plurality of sets of approval parameters associated with a plurality of purchase requests from requestors and associating each set of approval parameters with a dynamic payment identifier so that a purchase initiated with the dynamic payment identifier may be correlated and approved with respect to the appropriate set of approval  
5 parameters. In more detailed respects, the method may include providing access through a network to a plurality of customizable purchasing management rules residing on one or more server systems, receiving through the network a purchase request from a requestor, applying the purchasing management rules to the purchase request, notifying a purchasing manager of the purchase request, and allowing for the purchasing manager to identify the one or more approval parameters for an approved purchase request.

15 In another embodiment, the present invention is a purchasing management system utilizing dynamic payment identifiers, such as dynamic payment cards, to provide control over purchases of a customer entity, including one or more server systems configured to receive a plurality of sets of approval parameters associated with a plurality of purchase requests from a plurality of requestors associated with a customer entity, and a plurality of dynamic payment cards provided to the plurality of requestors. Each set of approval parameters is associated with at least one dynamic payment card, so that the dynamic payment cards allow a user to purchase a product or service if the appropriate set of approval parameters are met.

20

In still another embodiment, the present invention is a method for providing server-based purchasing management services to customer entities through a network, including providing access through a network to a plurality of customizable purchasing management rules residing on

one or more server systems where the purchasing management rules provide approval requirements for purchases requested by requestors associated with a customer entity, receiving through the network a purchase request from a requestor, applying the purchasing management rules to the purchase request, notifying a purchasing manager of the purchase request if the 5 purchasing management rules require action by the purchasing manager for the purchase request to be approved, and allowing for the purchasing manager to take approval action through a network accessible approval mechanism. In more detailed respects, the purchase request receiving step includes receiving a purchase request from a network enabled market, thereby allowing the requestor to identify and select for purchase products or services through the network. Still further, the purchase request receiving step may include receiving a purchase request from a market that is not network enabled. The method may further include the step of 10 allowing the purchasing manager to determine one or more approval parameters associated with an approval of the purchase request and the step of associating the one or more approval parameters with a dynamic payment identifier, such as a dynamic payment card, to be utilized for 15 purchase of the product or service identified in the purchase request.

In yet another embodiment, the present invention is a network accessible purchasing management system, including one or more server systems accessible through a network that are configured to provide access to a plurality of customizable purchasing management rules 20 residing on the server systems, a purchase request subsystem within the server systems configured to receive a purchase request through the network, an approval processing subsystem within the server systems configured to apply the purchasing management rules to the purchase request and to allow a purchasing manager to take approval action, if the purchasing management

rules require action by the purchasing manager for the purchase request to be approved. In more detailed respects, the system includes a dynamic payment processing subsystem within the server systems configured to associate sets of approval parameters with dynamic payment identifiers, such as dynamic payment cards, to be utilized for purchase of the product or service identified in  
5 purchase requests.

03/17/2015  
10  
15

20

Still further, the present invention is a method for purchasing management utilizing dynamic payment identifiers and dynamic approval parameters, including receiving a plurality of purchase requests from requestors within an entity, evaluating the plurality of purchase requests with respect to the entity's purchase policies, generating a plurality of sets of approval parameters with each set of approval parameters being associated with an approved purchase request, and associating each set of approval parameters with a dynamic payment identifier so that purchases using the dynamic payment identifier may be correlated to an appropriate set of approval parameters. In addition, the method may include providing access through a network to a plurality of customizable purchasing management rules residing on one or more server systems, receiving through the network the plurality of purchase requests and applying the purchasing management rules to the purchase requests to help generate the approval parameters for approved purchase requests. Also, the method may include notifying an approver of a purchase request, if some action is required from the approver for the purchase request to be approved, and allowing the approver to take the required action through a network accessible approval mechanism. Still further, the method may include allowing the approver to identify, at least in part, the approval parameters for the approved purchase request. In more detailed respects, the purchase requests may be requests for purchases of products or services from network enabled markets or from

non-network enabled markets. In addition, the dynamic payment identifiers comprise dynamic payment cards, and the dynamic payment identifiers may be utilized as requestor specific identifiers. Also, the purchase requests may include an indication of the dynamic payment identifier of the requestor.

5

In a further embodiment, the present invention is a method for providing server-based purchasing management services to customer entities through a network, including providing access through a network to a plurality of customizable purchasing management rules residing on one or more server systems where the purchasing management rules provide approval requirements for purchases requested by requestors associated with a customer entity, receiving through the network a purchase request from a requestor, applying the purchasing management rules to the purchase request, notifying an approver of the purchase request if the purchasing management rules require action by the approver for the purchase request to be approved, and allowing for the approver to take approval action through a network accessible approval mechanism. The method may further include associating a dynamic payment identifier with an approved purchase request, as well as, generating a set of approval parameters for the approved purchase request and associating the set of approval parameters with the dynamic payment identifier. Still further, the method may include correlating a purchase made using the dynamic payment identifier with the purchase request and approving the purchase if the purchase is within the approval parameters. In more detailed respects, the approval parameters may include an identity of a vendor for a requested product or service and a maximum cost amount for the product or service. In addition, the dynamic payment identifier may be a dynamic payment card, and the method may further include providing a plurality of dynamic payment cards to a plurality

of requestors within an entity so that each request may utilize the dynamic payment card in making purchase requests and in executing approved purchase requests.

In further respects, the method may include receiving a purchase request from a network  
5 enabled market with the network enabled market allowing the requestor to identify and select for purchase products or services through the network. Still further, the method may include allowing the approver to determine one or more approval parameters associated with an approved purchase request from the network enabled market, assigning a dynamic payment identifier to the purchase request, and associating the one or more approval parameters with the dynamic payment identifier. The receiving step may also include receiving a purchase request from a market that is not network enabled with the purchase request identifying one or more details concerning a need that the purchase request will address. The method may also include allowing the approver to determine one or more approval parameters associated with an approved purchase request from the non-network enabled market, assigning a dynamic payment identifier to the purchase request, and associating the one or more approval parameters with the dynamic payment identifier.

In another embodiment, the present invention is a purchasing management system utilizing dynamic payment identifiers to provide control over purchases of a customer entity  
20 including one or more systems configured to receive a plurality of purchase requests from a plurality of requestors within an entity and to generate a plurality of sets of approval parameters associated with the plurality of purchase requests, and a plurality of dynamic payment identifiers, where at least one dynamic payment identifier is associated with each set of approval parameters,

and where the dynamic payment identifiers allow purchases made using a dynamic payment identifier to be correlated with an appropriate set of approval parameters. In more detailed respects, the server systems may include one or more server systems configured to receive through a network the plurality of sets of approval requirements. In addition, the server systems  
5 may be further configured to provide access through the network to a plurality of customizable purchasing management rules residing the server systems and to apply the purchasing management rules to the purchase requests. Still further, the purchasing management system may include one or more systems configured to store the plurality of sets of approval parameters and the associated dynamic payment identifiers, to receive details of a purchase made using a dynamic payment identifier, to evaluate the purchase against an appropriate set of approval parameters for the purchase request associated with the purchase, and to approve the purchase if the purchase falls within the approval parameters. In addition, the dynamic payment identifiers may include dynamic payment cards, and the purchase requests may include requests for purchase of products or services from network enabled markets or from non-network enabled markets.  
10  
15

In yet another embodiment, the present invention is a network accessible purchasing management system, including one or more server systems accessible through a network that are configured to provide access to a plurality of customizable purchasing management rules residing on the server systems, a purchase request subsystem within the server systems configured to receive purchase requests through the network, and an approval processing subsystem within the server systems configured to apply the purchasing management rules to the purchase requests and to allow an approver to take approval action, if the purchasing  
20

management rules require action by the approver for a purchase request to be approved. In addition, the network accessible purchasing management system may include a dynamic payment processing subsystem within the server systems configured to associate a set of approval parameters for each purchase request with a dynamic payment identifier to be utilized 5 for purchase of the product or service identified in purchase request. Still further, the system may include one or more systems configured to store a plurality of sets of approval parameters and associated dynamic payment identifiers, to receive details of a purchase made using a dynamic payment identifier, to evaluate the purchase against an appropriate set of approval parameters for the purchase request associated with the purchase, and to approve the purchase if the purchase falls within the approval parameters. In more detailed respects, the dynamic payment identifiers may include dynamic payment cards, and the approval parameters may include an identity of a vendor for a requested product or service and a maximum cost amount for the product or service.

### **Description of the Drawings**

It is noted that the appended drawings illustrate only exemplary embodiments of the invention and are, therefore, not to be considered limiting of its scope, for the invention may admit to other equally effective embodiments.

FIG. 1 is a block diagram for a purchasing management environment utilizing dynamic payment cards, according to the present invention.

FIG. 2 is a flow diagram for purchase request processing that utilizes dynamic payment identifiers and approval parameters, according to the present invention.

5 FIG. 3 is a block diagram representing various potential sources for purchase requests within a purchasing management environment, according to the present invention

FIG.4 is a block diagram for purchase request processing including alternative transaction paths, according to the present invention.

## Detailed Description of the Invention

The present invention provides systems and methods for controlling and facilitating the management of product and service purchasing through dynamic payment approval mechanisms that are linked to individual transactions. The present invention accomplishes these advantageous processing goals, at least in part, by utilizing dynamic payment identifiers, such as dynamic payment cards, that provide a mechanism for identifying users so that dynamic approval parameters associated with any given purchase request from that user may be linked to purchases being attempted by these users. Dynamic approval parameters for any particular purchase request are produced after applying the company purchase policies to those purchase requests within a purchasing management system. By utilizing dynamic approval parameters linked to specific purchase requests, as opposed to general static approval limitations available with existing purchasing cards, the systems and methods of the present invention allow for the efficient management and control of company purchases, regardless of where the purchase is made,

without sacrificing the safety of having purchase requests reviewed under standard company purchase policies.

As indicated above, traditional purchasing card programs implement a set of static rules 5 against which all transactions are evaluated. Using these static rules, transactions utilizing purchasing cards are typically evaluated and checked for suppliers that are within a company's static preset list or for static financial parameters that have been preset for that particular card. Purchasing cards have the significant disadvantage of not supporting traditionally desired purchasing process of having requests reviewed and approved before purchases occur. Purchasing cards require controllers to pre-approve categories of spend and budgets that cardholders are then free to transact against for any desired purchase. Because companies are typically responsible for payment rather than the individual cardholders, companies have no leverage to help ensure proper use of purchasing cards.

Traditional stored value cards, which hold a set amount of credit at any given time, are used either as cash equivalents for that amount of credit or for use at one or more static merchants that are defined when the card program is initiated. Generally stored value cards are used as bulk credit instruments, meaning that the credit available on a stored value card may be used in multiple transactions until it is depleted. Some stored value cards, such as those offered 20 by Wildcard Systems, Inc., allow multiple merchants to be configured at program inception, similar to the static purchasing card configuration. Stored value cards, however, as with purchasing cards, fail to provide adequate safeguards and control for efficient purchasing management.

In contrast to traditional card programs, the dynamic payment card of the present invention reflects a dynamic, transaction-based pre-approval system for each transaction. Under the present invention, each transaction using the dynamic payment card may be dynamically pre-5 validated by a set of approval parameters, such as merchant, transaction amount, timeframe or any other desired parameter. As disclosed herein, the dynamic payment card and approval parameters of the present invention allow for control and management of product and service purchasing regardless of the product or service being purchased. Thus, in addition to allowing efficient purchasing management pre-selected network-accessible products and services, the purchasing management system of the present invention allows for purchasing management of any given purchasing need.

010  
015  
020  
025  
030  
035  
040  
045  
050  
055  
060  
065  
070  
075  
080  
085  
090  
095  
100  
105  
110  
115  
120  
125  
130  
135  
140  
145  
150  
155  
160  
165  
170  
175  
180  
185  
190  
195  
200  
205  
210  
215  
220  
225  
230  
235  
240  
245  
250  
255  
260  
265  
270  
275  
280  
285  
290  
295  
300  
305  
310  
315  
320  
325  
330  
335  
340  
345  
350  
355  
360  
365  
370  
375  
380  
385  
390  
395  
400  
405  
410  
415  
420  
425  
430  
435  
440  
445  
450  
455  
460  
465  
470  
475  
480  
485  
490  
495  
500  
505  
510  
515  
520  
525  
530  
535  
540  
545  
550  
555  
560  
565  
570  
575  
580  
585  
590  
595  
600  
605  
610  
615  
620  
625  
630  
635  
640  
645  
650  
655  
660  
665  
670  
675  
680  
685  
690  
695  
700  
705  
710  
715  
720  
725  
730  
735  
740  
745  
750  
755  
760  
765  
770  
775  
780  
785  
790  
795  
800  
805  
810  
815  
820  
825  
830  
835  
840  
845  
850  
855  
860  
865  
870  
875  
880  
885  
890  
895  
900  
905  
910  
915  
920  
925  
930  
935  
940  
945  
950  
955  
960  
965  
970  
975  
980  
985  
990  
995  
1000  
1005  
1010  
1015  
1020  
1025  
1030  
1035  
1040  
1045  
1050  
1055  
1060  
1065  
1070  
1075  
1080  
1085  
1090  
1095  
1100  
1105  
1110  
1115  
1120  
1125  
1130  
1135  
1140  
1145  
1150  
1155  
1160  
1165  
1170  
1175  
1180  
1185  
1190  
1195  
1200  
1205  
1210  
1215  
1220  
1225  
1230  
1235  
1240  
1245  
1250  
1255  
1260  
1265  
1270  
1275  
1280  
1285  
1290  
1295  
1300  
1305  
1310  
1315  
1320  
1325  
1330  
1335  
1340  
1345  
1350  
1355  
1360  
1365  
1370  
1375  
1380  
1385  
1390  
1395  
1400  
1405  
1410  
1415  
1420  
1425  
1430  
1435  
1440  
1445  
1450  
1455  
1460  
1465  
1470  
1475  
1480  
1485  
1490  
1495  
1500  
1505  
1510  
1515  
1520  
1525  
1530  
1535  
1540  
1545  
1550  
1555  
1560  
1565  
1570  
1575  
1580  
1585  
1590  
1595  
1600  
1605  
1610  
1615  
1620  
1625  
1630  
1635  
1640  
1645  
1650  
1655  
1660  
1665  
1670  
1675  
1680  
1685  
1690  
1695  
1700  
1705  
1710  
1715  
1720  
1725  
1730  
1735  
1740  
1745  
1750  
1755  
1760  
1765  
1770  
1775  
1780  
1785  
1790  
1795  
1800  
1805  
1810  
1815  
1820  
1825  
1830  
1835  
1840  
1845  
1850  
1855  
1860  
1865  
1870  
1875  
1880  
1885  
1890  
1895  
1900  
1905  
1910  
1915  
1920  
1925  
1930  
1935  
1940  
1945  
1950  
1955  
1960  
1965  
1970  
1975  
1980  
1985  
1990  
1995  
2000  
2005  
2010  
2015  
2020  
2025  
2030  
2035  
2040  
2045  
2050  
2055  
2060  
2065  
2070  
2075  
2080  
2085  
2090  
2095  
2100  
2105  
2110  
2115  
2120  
2125  
2130  
2135  
2140  
2145  
2150  
2155  
2160  
2165  
2170  
2175  
2180  
2185  
2190  
2195  
2200  
2205  
2210  
2215  
2220  
2225  
2230  
2235  
2240  
2245  
2250  
2255  
2260  
2265  
2270  
2275  
2280  
2285  
2290  
2295  
2300  
2305  
2310  
2315  
2320  
2325  
2330  
2335  
2340  
2345  
2350  
2355  
2360  
2365  
2370  
2375  
2380  
2385  
2390  
2395  
2400  
2405  
2410  
2415  
2420  
2425  
2430  
2435  
2440  
2445  
2450  
2455  
2460  
2465  
2470  
2475  
2480  
2485  
2490  
2495  
2500  
2505  
2510  
2515  
2520  
2525  
2530  
2535  
2540  
2545  
2550  
2555  
2560  
2565  
2570  
2575  
2580  
2585  
2590  
2595  
2600  
2605  
2610  
2615  
2620  
2625  
2630  
2635  
2640  
2645  
2650  
2655  
2660  
2665  
2670  
2675  
2680  
2685  
2690  
2695  
2700  
2705  
2710  
2715  
2720  
2725  
2730  
2735  
2740  
2745  
2750  
2755  
2760  
2765  
2770  
2775  
2780  
2785  
2790  
2795  
2800  
2805  
2810  
2815  
2820  
2825  
2830  
2835  
2840  
2845  
2850  
2855  
2860  
2865  
2870  
2875  
2880  
2885  
2890  
2895  
2900  
2905  
2910  
2915  
2920  
2925  
2930  
2935  
2940  
2945  
2950  
2955  
2960  
2965  
2970  
2975  
2980  
2985  
2990  
2995  
3000  
3005  
3010  
3015  
3020  
3025  
3030  
3035  
3040  
3045  
3050  
3055  
3060  
3065  
3070  
3075  
3080  
3085  
3090  
3095  
3100  
3105  
3110  
3115  
3120  
3125  
3130  
3135  
3140  
3145  
3150  
3155  
3160  
3165  
3170  
3175  
3180  
3185  
3190  
3195  
3200  
3205  
3210  
3215  
3220  
3225  
3230  
3235  
3240  
3245  
3250  
3255  
3260  
3265  
3270  
3275  
3280  
3285  
3290  
3295  
3300  
3305  
3310  
3315  
3320  
3325  
3330  
3335  
3340  
3345  
3350  
3355  
3360  
3365  
3370  
3375  
3380  
3385  
3390  
3395  
3400  
3405  
3410  
3415  
3420  
3425  
3430  
3435  
3440  
3445  
3450  
3455  
3460  
3465  
3470  
3475  
3480  
3485  
3490  
3495  
3500  
3505  
3510  
3515  
3520  
3525  
3530  
3535  
3540  
3545  
3550  
3555  
3560  
3565  
3570  
3575  
3580  
3585  
3590  
3595  
3600  
3605  
3610  
3615  
3620  
3625  
3630  
3635  
3640  
3645  
3650  
3655  
3660  
3665  
3670  
3675  
3680  
3685  
3690  
3695  
3700  
3705  
3710  
3715  
3720  
3725  
3730  
3735  
3740  
3745  
3750  
3755  
3760  
3765  
3770  
3775  
3780  
3785  
3790  
3795  
3800  
3805  
3810  
3815  
3820  
3825  
3830  
3835  
3840  
3845  
3850  
3855  
3860  
3865  
3870  
3875  
3880  
3885  
3890  
3895  
3900  
3905  
3910  
3915  
3920  
3925  
3930  
3935  
3940  
3945  
3950  
3955  
3960  
3965  
3970  
3975  
3980  
3985  
3990  
3995  
4000  
4005  
4010  
4015  
4020  
4025  
4030  
4035  
4040  
4045  
4050  
4055  
4060  
4065  
4070  
4075  
4080  
4085  
4090  
4095  
4100  
4105  
4110  
4115  
4120  
4125  
4130  
4135  
4140  
4145  
4150  
4155  
4160  
4165  
4170  
4175  
4180  
4185  
4190  
4195  
4200  
4205  
4210  
4215  
4220  
4225  
4230  
4235  
4240  
4245  
4250  
4255  
4260  
4265  
4270  
4275  
4280  
4285  
4290  
4295  
4300  
4305  
4310  
4315  
4320  
4325  
4330  
4335  
4340  
4345  
4350  
4355  
4360  
4365  
4370  
4375  
4380  
4385  
4390  
4395  
4400  
4405  
4410  
4415  
4420  
4425  
4430  
4435  
4440  
4445  
4450  
4455  
4460  
4465  
4470  
4475  
4480  
4485  
4490  
4495  
4500  
4505  
4510  
4515  
4520  
4525  
4530  
4535  
4540  
4545  
4550  
4555  
4560  
4565  
4570  
4575  
4580  
4585  
4590  
4595  
4600  
4605  
4610  
4615  
4620  
4625  
4630  
4635  
4640  
4645  
4650  
4655  
4660  
4665  
4670  
4675  
4680  
4685  
4690  
4695  
4700  
4705  
4710  
4715  
4720  
4725  
4730  
4735  
4740  
4745  
4750  
4755  
4760  
4765  
4770  
4775  
4780  
4785  
4790  
4795  
4800  
4805  
4810  
4815  
4820  
4825  
4830  
4835  
4840  
4845  
4850  
4855  
4860  
4865  
4870  
4875  
4880  
4885  
4890  
4895  
4900  
4905  
4910  
4915  
4920  
4925  
4930  
4935  
4940  
4945  
4950  
4955  
4960  
4965  
4970  
4975  
4980  
4985  
4990  
4995  
5000  
5005  
5010  
5015  
5020  
5025  
5030  
5035  
5040  
5045  
5050  
5055  
5060  
5065  
5070  
5075  
5080  
5085  
5090  
5095  
5100  
5105  
5110  
5115  
5120  
5125  
5130  
5135  
5140  
5145  
5150  
5155  
5160  
5165  
5170  
5175  
5180  
5185  
5190  
5195  
5200  
5205  
5210  
5215  
5220  
5225  
5230  
5235  
5240  
5245  
5250  
5255  
5260  
5265  
5270  
5275  
5280  
5285  
5290  
5295  
5300  
5305  
5310  
5315  
5320  
5325  
5330  
5335  
5340  
5345  
5350  
5355  
5360  
5365  
5370  
5375  
5380  
5385  
5390  
5395  
5400  
5405  
5410  
5415  
5420  
5425  
5430  
5435  
5440  
5445  
5450  
5455  
5460  
5465  
5470  
5475  
5480  
5485  
5490  
5495  
5500  
5505  
5510  
5515  
5520  
5525  
5530  
5535  
5540  
5545  
5550  
5555  
5560  
5565  
5570  
5575  
5580  
5585  
5590  
5595  
5600  
5605  
5610  
5615  
5620  
5625  
5630  
5635  
5640  
5645  
5650  
5655  
5660  
5665  
5670  
5675  
5680  
5685  
5690  
5695  
5700  
5705  
5710  
5715  
5720  
5725  
5730  
5735  
5740  
5745  
5750  
5755  
5760  
5765  
5770  
5775  
5780  
5785  
5790  
5795  
5800  
5805  
5810  
5815  
5820  
5825  
5830  
5835  
5840  
5845  
5850  
5855  
5860  
5865  
5870  
5875  
5880  
5885  
5890  
5895  
5900  
5905  
5910  
5915  
5920  
5925  
5930  
5935  
5940  
5945  
5950  
5955  
5960  
5965  
5970  
5975  
5980  
5985  
5990  
5995  
6000  
6005  
6010  
6015  
6020  
6025  
6030  
6035  
6040  
6045  
6050  
6055  
6060  
6065  
6070  
6075  
6080  
6085  
6090  
6095  
6100  
6105  
6110  
6115  
6120  
6125  
6130  
6135  
6140  
6145  
6150  
6155  
6160  
6165  
6170  
6175  
6180  
6185  
6190  
6195  
6200  
6205  
6210  
6215  
6220  
6225  
6230  
6235  
6240  
6245  
6250  
6255  
6260  
6265  
6270  
6275  
6280  
6285  
6290  
6295  
6300  
6305  
6310  
6315  
6320  
6325  
6330  
6335  
6340  
6345  
6350  
6355  
6360  
6365  
6370  
6375  
6380  
6385  
6390  
6395  
6400  
6405  
6410  
6415  
6420  
6425  
6430  
6435  
6440  
6445  
6450  
6455  
6460  
6465  
6470  
6475  
6480  
6485  
6490  
6495  
6500  
6505  
6510  
6515  
6520  
6525  
6530  
6535  
6540  
6545  
6550  
6555  
6560  
6565  
6570  
6575  
6580  
6585  
6590  
6595  
6600  
6605  
6610  
6615  
6620  
6625  
6630  
6635  
6640  
6645  
6650  
6655  
6660  
6665  
6670  
6675  
6680  
6685  
6690  
6695  
6700  
6705  
6710  
6715  
6720  
6725  
6730  
6735  
6740  
6745  
6750  
6755  
6760  
6765  
6770  
6775  
6780  
6785  
6790  
6795  
6800  
6805  
6810  
6815  
6820  
6825  
6830  
6835  
6840  
6845  
6850  
6855  
6860  
6865  
6870  
6875  
6880  
6885  
6890  
6895  
6900  
6905  
6910  
6915  
6920  
6925  
6930  
6935  
6940  
6945  
6950  
6955  
6960  
6965  
6970  
6975  
6980  
6985  
6990  
6995  
7000  
7005  
7010  
7015  
7020  
7025  
7030  
7035  
7040  
7045  
7050  
7055  
7060  
7065  
7070  
7075  
7080  
7085  
7090  
7095  
7100  
7105  
7110  
7115  
7120  
7125  
7130  
7135  
7140  
7145  
7150  
7155  
7160  
7165  
7170  
7175  
7180  
7185  
7190  
7195  
7200  
7205  
7210  
7215  
7220  
7225  
7230  
7235  
7240  
7245  
7250  
7255  
7260  
7265  
7270  
7275  
7280  
7285  
7290  
7295  
7300  
7305  
7310  
7315  
7320  
7325  
7330  
7335  
7340  
7345  
7350  
7355  
7360  
7365  
7370  
7375  
7380  
7385  
7390  
7395  
7400  
7405  
7410  
7415  
7420  
7425  
7430  
7435  
7440  
7445  
7450  
7455  
7460  
7465  
7470  
7475  
7480  
7485  
7490  
7495  
7500  
7505  
7510  
7515  
7520  
7525  
7530  
7535  
7540  
7545  
7550  
7555  
7560  
7565  
7570  
7575  
7580  
7585  
7590  
7595  
7600  
7605  
7610  
7615  
7620  
7625  
7630  
7635  
7640  
7645  
7650  
7655  
7660  
7665  
7670  
7675  
7680  
7685  
7690  
7695  
7700  
7705  
7710  
7715  
7720  
7725  
7730  
7735  
7740  
7745  
7750  
7755  
7760  
7765  
7770  
7775  
7780  
7785  
7790  
7795  
7800  
7805  
7810  
7815  
7820  
7825  
7830  
7835  
7840  
7845  
7850  
7855  
7860  
7865  
7870  
7875  
7880  
7885  
7890  
7895  
7900  
7905  
7910  
7915  
7920  
7925  
7930  
7935  
7940  
7945  
7950  
7955  
7960  
7965  
7970  
7975  
7980  
7985  
7990  
7995  
8000  
8005  
8010  
8015  
8020  
8025  
8030  
8035  
8040  
8045  
8050  
8055  
8060  
8065  
8070  
8075  
8080  
8085  
8090  
8095  
8100  
8105  
8110  
8115  
8120  
8125  
8130  
8135  
8140  
8145  
8150  
8155  
8160  
8165  
8170  
8175  
8180  
8185  
8190  
8195  
8200  
8205  
8210  
8215  
8220  
8225  
8230  
8235  
8240  
8245  
8250  
8255  
8260  
8265  
8270  
8275  
8280  
8285  
8290  
8295  
8300  
8305  
8310  
8315  
8320  
8325  
8330  
8335  
8340  
8345  
8350  
8355  
8360  
8365  
8370  
8375  
8380  
8385  
8390  
8395  
8400  
8405  
8410  
8415  
8420  
8425  
8430  
8435  
8440  
8445  
8450  
8455  
8460  
8465  
8470  
8475  
8480  
8485  
8490  
8495  
8500  
8505  
8510  
8515  
8520  
8525  
8530  
8535  
8540  
8545  
8550  
8555  
8560  
8565  
8570  
8575  
8580  
8585  
8590  
8595  
8600  
8605  
8610  
8615  
8620  
8625  
8630  
8635  
8640  
8645  
8650  
8655  
8660  
8665  
8670  
8675  
8680  
8685  
8690  
8695  
8700  
8705  
8710  
8715  
8720  
8725  
8730  
8735  
8740  
8745  
8750  
8755  
8760  
8765  
8770  
8775  
8780  
8785  
8790  
8795  
8800  
8805  
8810  
8815  
8820  
8825  
8830  
8835  
8840  
8845  
8850  
8855  
8860  
8865  
8870  
8875  
8880  
8885  
8890  
8895  
8900  
8905  
8910  
8915  
8920  
8925  
8930  
8935  
8940  
8945  
8950  
8955  
8960  
8965  
8970  
8975  
8980  
8985  
8990  
8995  
9000  
9005  
9010  
9015  
9020  
9025  
9030  
9035  
9040  
9045  
9050  
9055  
9060  
9065  
9070  
9075  
9080  
9085  
9090  
9095  
9100  
9105  
9110  
9115  
9120  
9125  
9130  
9135  
9140  
9145  
9150  
9155  
9160  
9165  
9170  
9175  
9180  
9185  
9190  
9195  
9200  
9205  
9210  
9215  
9220  
9225  
9230  
9235  
9240  
9245  
9250  
9255  
9260  
9265  
9270  
9275  
9280  
9285  
9290  
9295  
9300  
9305  
9310  
9315  
9320  
9325  
9330  
9335  
9340  
9345  
9350  
9355  
9360  
9365  
9370  
9375  
9380  
9385  
9390  
9395  
9400  
9405  
9410  
9415  
9420  
9425  
9430  
9435  
9440  
9445  
9450  
9455  
9460  
9465  
9470  
9475  
9480  
9485  
9490  
9495  
9500  
9

system may use the same credit card network agent to rescind the transactional authorization for that particular dynamic payment card.

By utilizing the dynamic payment card platform, the current invention advantageously provides active control that is not available with traditional credit cards or other purchase cards. In other words, the dynamic payment card purchasing of the present invention enables small, midsize and large companies to utilize a bank card as a primary mechanism for managing spending and procurement in business operations, while still maintaining active control over those purchases. The static approval mode of traditional purchasing cards simply does not support the standard purchase approval process in most businesses, where managers review requests and then approve these specific requests for purchase. Many companies are not willing to use such traditional purchasing cards for the majority of their expenditures due to the lack of control over the actual purchasing execution. Such companies, therefore, limit the use of purchase cards or avoid them altogether. Thus, significant amounts of operational expenditures (technology, industrial supplies, office supplies, etc, which are often fall within 15-25% of a company's revenue) are processed through other mechanisms, such as reimbursement or check request procedures.

As described herein, the dynamic payment card platform of the current invention resolves this situation by providing significant management and approval capabilities that exceed those available with traditional purchasing card programs. Advantageously, with the present invention, review of purchase requests may occur before purchase execution, enabling the dynamic payment card to actively support standard company purchasing processes. Pre-approval

processing then allows for robust exception handling procedures and enables the use of purchase requests that trigger rules for desired approval routing. And, once approved, approval requirements for a particular purchase request may be tied or associated with a particular dynamic payment card so that card transactions may be processed within a credit card processing network, while still allowing for approval and policy control by the business.

The systems and methods of the present invention will now be described in further detail with respect to FIGS. 1-4. More specifically, FIG. 1 provides an example of a purchasing management environment with clients linked to the purchasing management system through a network and with card transaction processing occurring within a dynamic payment card processing system. FIG. 2 provides an example process flow diagram for use of a dynamic payment identifier from purchase request generation to transaction execution. FIG. 3 provides example markets and sources from which purchase requests may be come for injection into the purchasing management system. And FIG. 4 provides a flow diagram including purchases made both utilizing and not utilizing the dynamic payment capabilities of the present invention.

Referring now to FIG. 1, block diagram is depicted for a purchasing management environment 150 utilizing a dynamic payment card system 130 to facilitate purchasing management, according to the present invention. As depicted, the purchasing management environment 150 includes purchasing management system 100, dynamic payment card processing system 130, vendor systems 140, and clients 104A, 104B ... 104C. The clients 104A, 104B ... 104C and the purchasing management system 100 may communicate with each other through network 102, which may be, for example, the Internet. Clients 104A, 104B ... 104C and

the purchasing management system 100 may be connected to the network 102 through connections 112A, 112B ... 112C and 114, respectively. These connections may be any of a variety of mechanisms for connecting computer systems to networks, including wireless connections, network hubs, routers, Internet service providers (ISPs), portal computers, or any other device or system providing connectivity, as would be understood by one of skill in the art. 5 The network 102 is represented by a cloud shape to indicate that network 102 may be any network medium ultimately allowing communication between clients

10 The clients 104A, 104B ... 104C represent companies or entities that are utilizing the purchasing management system 100. Within these companies or entities, there will have any of a variety of devices and systems that may be utilized, for example, personal computers, servers, handheld computer devices, portable computers, personal digital assistants or any other device or system that is desired to be utilized. It is noted that although FIG. 1 depicts a purchasing management system 100 that is a server-based network-accessible system, the dynamic approval parameters and payment card of the present invention may be utilized with client-based systems, 15 server-based systems, or a combination of both. It is further noted that the purchasing management system 100 represents any desired grouping of devices and systems that work together to provide the desired purchasing management functionality.

20 As shown in FIG. 1, each client includes a plurality of users. For example, client 104A includes users 106A, 106B ... 106C. Client 104B includes users 108A, 108B ... 108C. and client 104C includes users 110A, 110B ... 110C. These users represent the various employees

that utilize the purchasing management system 100, including requesters who request purchases, approvers who approve requests, and managers who manage the purchase policies and rules.

According to the present invention, each user may have an individual dynamic payment card. Preferably, the dynamic payment card are similar to traditional magnetic-strip credit cards and purchasing cards, which have unique numbers associated with them. These unique numbers provide a mechanism for allowing transactions initiated with the card may be identified. It is noted, however, that other dynamic payment identifiers may be utilized other than magnetic-strip cards with unique number identifiers. For example, unique numbers may be utilized, such as social security numbers. These unique numbers would then simply be transmitted along with the transaction information. Furthermore, biological identifiers could be utilized, such as fingerprints. In short, because current infrastructure is in place to process magnetic-strip credit card type mechanisms, these type mechanisms are currently preferred. However, according to the present invention, any dynamic payment identifier may be utilized that will allow purchase requests and associated approval parameters to be correlated with initiated transactions.

The purchasing management system 100 includes purchase request block 116, approval processing block 118, dynamic purchase processing block 120, and transaction reconciliation and reporting block 122. The purchase request block 116 represents subsystems within the purchasing management system 100 that allow for the generation of purchase requests by users 106A, 106B ... 106C, 108A, 108B ... 108C, and users 110A, 110B ... 110C within clients 104A, 104B ... 104C. Approval processing block 118 represents subsystems that allow for the processing of purchase request utilizing policies and rules that may be configured, selected or

otherwise put in place by the clients 104A, 104B ... 104C. The dynamic purchase processing block 120 represents subsystems that handle purchase requests utilizing dynamic payment cards. This block communicates with the dynamic payment card processing system 130 and provides purchase order information to the transaction reconciliation and reporting block 122. This block 5 122 represents subsystems that reconcile approved purchase requests with processed transaction information received from the dynamic payment card processing system 130 and then report transactions to clients 104A, 104B ... 104C. This reporting may take any of a variety of forms and may be configured differently for different clients depending upon how those clients desire transactions to be reported.

10

20

The dynamic payment card processing system 130 includes approval parameters database block 132 and transaction processing block 134. The approval parameters database block 132 represents subsystems that store approval parameters that are sent from the dynamic purchase processing block 120. These approval parameters are stored with respect to each specific purchase request and are, therefore, dynamic with respect to initiated transactions. Thus, when a user initiates a transaction, vendor systems 140 communicate with the transaction processing block 134. If the transaction falls within the approval parameters, the transaction processing block 134 approves the transaction and notifies the vendor systems 140 of this approval. If the transaction does fall outside of the approval parameters, the transaction processing block 134 rejects the transaction and notifies the vendor systems 140 of this rejection. The transaction processing block 134 then sends transaction details to the transaction reconciliation and reporting block 122. It is noted that the dynamic payment card processing system may be similar to existing credit card transaction systems, such as the VisaNet credit card processing network, which include the

ability dynamically store a set of approval parameters per approved purchase requests. As indicated above, traditional purchasing card processing only stores a single, static set of limitations for any given purchasing card.

5 The purchasing management system 100 of the present invention is preferably a network-accessible, server-based system that eliminates the requirement for companies to expend and allocate significant internal resources to client-based system management. An example of a server-based purchasing or procurement management system is described in co-pending U.S. Patent Application SN 09/409,316, entitled "Method and System for Online Business Purchasing," which is hereby incorporated by reference in its entirety. In particular, embodiments disclosed in this co-pending application utilize network accessible catalogs and various configurable product listings to provide a network accessible marketplace and to allow for network-based product selection. These embodiments, therefore, focus primarily upon purchasing management for purchases from defined or catalogued marketplaces in which particular pre-identified products were offered or catalogued. For managing purchases, this co-pending application discloses a variety of customizable purchasing requirements, policies and rules to allow users and/or purchasing managers a wide variety of network accessible and configurable controls for managing purchases. These customizable management features include automatic purchase approval, manual purchase approval through approval queues, automatic order placing after purchase approval, and post-purchase management features.

10

15

20

FIG. 2 is a flow diagram for purchase request processing 200 that utilizes dynamic payment identifiers and approval parameters, according to the present invention. Initially, in

block 202, users may be provided or assigned dynamic payment identifiers. As indicated above, magnetic-strip cards with unique numbers can be utilized to provide a dynamic payment identifier. Advantageously, dynamic payment cards according to the present invention may be used within existing credit card processing infrastructures. Moving to block 204, a user may 5 then begin the process by generating a purchase request using a dynamic payment identifier. This purchase request will identify purchase information, such as vendor, product or service to be purchased, quantity, pricing, justification, or any other desired information. It is noted that instead of utilizing the dynamic payment identifier in block 204, the dynamic payment identifier may be associated with a purchase request at some other point in the process, as desired, for example, in block 208 where a purchase request has already been approved.

10  
15

20

In block 206, this purchase request is reviewed according to company policies and rules that are in place. This processing may include, for example, configurable purchase policies that allow companies to identify and establish various purchase policies that automatically determine what is required for approval of various purchase requests. For example, such purchase policies may include the ability to determine what purchases may be automatically approved, as well as an indication of what purchases require manual approval before being ordered and shipped. In addition, the degree of manual approval may be selected, as desired, from simply approval of an amount to be spent to ever increasing details concerning the vendor or other details of the purchase.

Purchase request processing may also utilize approval queues. Once items are sent to the approval queues, a notification is sent to a given person who must take a given action, for

example, approve the purchase selection, reject the purchase selection, or place the selection in an “on hold” status. When an approver elects to review the approval queue, a detailed view of the item to be reviewed may be provided to the approver. If a set of items are listed in the approval queue, the approver may perform a line item veto or approval on particular items. It is noted that depending upon the rules in place, one or more approvers may be notified to review the request before approval. It is further noted that a given purchase request may be separated into multiple requests due to policy rules, so that automatically approved requests are immediately processed, while others are delayed pending approval, if manual approval is required. In addition, items within each request may be logically split and managed within the server according to vendor or any other desired feature of the request.

In addition, in one embodiment of the present invention, managers may use conventional Internet browsers to navigate to a web site associated with the purchasing management system 100. Once an account is set up, the manager can perform a variety of management functions, including creating departments and users and defining budget limits. Users can be defined as requesters or approvers or any other desired designation. The manager may then define detailed options for purchase approval including rules that determine when given purchases require manual approval. Advantageously, this network-accessible management system may be implemented with traditional network browsers without requiring special client-side software.

20

Example management features for purchasing management systems are described in more detail in U.S. Patent Application SN 09/409,316, entitled “Method and System for Online

Business Purchasing," which is, as indicated above, hereby incorporated in the specification by reference in its entirety.

Looking back now to FIG. 2, in block 206, the purchase request is ultimately rejected or 5 approved. If the request is rejected, flow passes to block 230. As block 230 indicates, a new or modified purchase request is required for a user to continue with obtaining approval to complete the desired transaction.

If the purchase request is approved, flow passes to block 208, where a purchase order is generated. This purchase order represents the details of the requested transaction. As a result of the purchase request processing, and as represented in block 208, approval parameters are also generated and associated with the purchase request and purchase order. These approval parameters may include any of a variety of details, including the time within which the transaction must be completed, approved vendors, approved transaction amounts, or any other desired transaction limitation or requirement. Thus, once approved, each purchase request has associated with it a set of dynamic approval parameters, a purchase order, and a dynamic payment identifier. This information is provided to block 220 for further processing and reconciliation.

20 In block 210, the dynamic approval parameters are provided to the dynamic payment processing system that will process the transaction, along with the associated dynamic payment identifier and any other desired information. These approval parameters, which represent approval requirements for a given purchase order, are then dynamically stored with respect to

the dynamic payment identifier used for the purchase request in block 204. In block 212, the user initiates a transaction utilizing the dynamic payment identifier, which may be, for example, a dynamic payment card. In block 214, the transaction details are correlated to the dynamic approval parameters stored for that dynamic payment identifier. It is noted that each dynamic payment identifier may have a plurality of different sets of approval parameters, one set being associated with each approved transaction and related purchase order. Thus, the correlation that occurs in block 214 is to identify which set of approval parameters should be used for the initiated transaction. For example, vendor information may first be utilized to limit the initiated transaction to a reduced number of the sets of approval requirements. From there, transaction amount or product/service types may be utilized to further determine which set of approval requirements to utilize. Alternatively, another identifying number or other identifier could be stored and utilized to directly relate initiated transactions with approved purchase orders.

10  
15  
20

In block 216, the transaction is reviewed or processed by the dynamic payment processing system to determine if the transaction falls within the approval parameters. If the transaction falls outside of these parameters, flow passes to block 224 where the transaction is rejected. From there, decision block 226 provides a mechanism to determine if additional transaction attempts are to be allowed. For example, if an transaction amount parameter were exceeded, a “yes” could be determined, and flow could then pass back to block 212 where the user could try to initiate an appropriate transaction. As a further example, if a time limit parameter could have been exceeded, a “no” could be determined, and flow could then pass back to block 230 wherein a new purchase request would be required.

Looking back to block 216, if the transaction does fall within the approval parameters, flow passes to block 218 where the transaction is completed. The transaction details are provided back to the purchasing management system, and in block 220, the transaction is reconciled with the purchase order and other information provided previously from block 208.

5 Once transactions are reconciled, accounting details may be reported to clients, as indicated by block 222. It is noted that multiple purchase requests from multiple users may be simultaneously processed through the purchase request processing flow 200, so that the reporting in block 222 can include, for example, a monthly statement of all client transaction that have utilized the dynamic payment identifier.

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120  
130  
140  
150

FIG. 3 is a block diagram representing various potential sources for purchase request forms 320 that are injected as purchase requests into the purchasing management environment 100, according to the present invention. It is noted that the source of the purchase request form or the market from which the product or service will be ultimately purchased is not significant to the current invention. The present invention allows for efficient management and control of all purchases so long as a purchase request for a desired purchase is injected in some manner into the purchasing management system 100 so that it may be processed according to company purchasing policies and rules.

20 Referring now to FIG. 3, request form generation or origination environment 300 includes a wide variety of sources from which purchase request forms 320 may be generated or originated. Once a purchase request form is generated or originated in block 320, this purchase request may be injected into the purchasing management system 100 for processing. To provide

for broad purchasing coverage, the environment 300 contemplates purchase requests originating from any source, including Internet enabled markets and other markets. Significantly, according to the present invention, once the purchase request has been generated, the purchase may be managed, regardless of the source of the purchase request.

5

In the embodiment depicted, Internet enabled or network accessible markets 315 may generate purchase request forms for the purchasing management system 100 through a software link, such as merchant APIs (Application Program Interface commands) 318. Examples of such network enabled markets 315 include electronic marketplaces 310, such as catalogued marketplaces that provide network accessible products and services that may have been identified and listed for purchase by a user. These catalogued marketplaces may include general marketplaces with one or more individual lists or groupings of products and services and may include branded marketplaces with one or more vendor-specific lists or groupings of products and services offered under a particular vendor brand. Catalogued marketplaces are discussed, for example, in co-pending U.S. Patent Application SN 09/409,316, entitled "Method and System for Online Business Purchasing."

10  
15  
20

In addition, Internet merchants 312 provide network accessible or Internet enabled markets that may be linked to the purchasing management system 100 of the present invention through merchant APIs 318. Still further, traditional non-Internet enabled merchants 314 may be linked through additional software and APIs. Such non-Internet enabled merchants may also be linked through the use of hosted catalogs 316 that may be made available to Internet users. In short, Internet enabled markets, which allow for access through the Internet, may be linked to the

purchasing management system 100 through merchant APIs 318 or any other desired connection mechanism.

In addition to generation of purchase requests through these Internet enabled markets 315, purchase requests may be generated from other sources or markets 305, including through a web interface 308. Examples of other markets 305 are open requests 302, which include user generated purchase requests. These requests take no pre-defined form and may be generated by the user through the web interface 308. In addition, user-customized catalogs 304 may be utilized to generate purchase requests through the web interface 308. Also, vendors or suppliers may provide a supplier interface 306 through which purchase request forms may be provided for its customers, so that the user may simply use a supplier interface to generate a purchase request form for block 320. It is noted that the open request block 302, the custom catalogs block 304 and the supplier interface block 306 represent only examples of other sources for purchase requests and should not be taken as being an exclusive group. It is further noted that purchase request may be generated through mediums other than a web interface 308, such as through phone calls and facsimile transmissions, for ultimate injection into the purchasing management system 100, according to the present invention.

In short, the manner in which a purchase request is generated for injection into the purchasing management system 100 is not significant as long as a purchase request is generated in some form that may be processed by the purchasing management system 100. Once in the purchasing management system 100, the purchase request may be efficiently managed, according

to the present invention. This is so, whether the product or service desired is found within the non-network enabled markets 305 or within network enabled markets 315.

FIG.4 is a block diagram for purchase request process flow 400 including alternative transaction paths, according to the present invention. The process flow 400 begins with block 402 where a purchase request is received for a product and service. Moving on to block 404, the purchase request is processed and a positive or negative approval response is completed. As discussed above, it is contemplated that the purchase request in block 402 may take a wide variety of forms, from a specific request for a product or service at a particular price from a particular vendor to a general request for an amount of money to be used to meet some specified need. In turn, the approval processing in block 404 considers these widely varying requests and provides a response that may also vary widely in specificity. For example, the approval may range from approval for a specific product or service from a specific vendor for a specific price to approval for an allocation of an amount of money for the purchase of a product or service to meet an approved need. In block 406, the buyer will perform the buyer's typical role selecting and performing the purchasing act, unless this step is bypassed through some type of pre-selection or automatic product selection. In other words, to the extent not already specified in the purchase request by the requestor or requesting user, the buyer will determine the specifics of the purchase, for example, the vendor, particular products or SKU's, etc.

20

After the buyer role has been exercised and a particular product are service has been identified for purchase related to an approved purchase request, decision block 408 is used to determine how the transaction is processed to completion. In block 408, a decision is made

whether the dynamic payment card is desired to be utilized. If the dynamic payment card is not to be utilized, flow passes to block 418 where an order is placed with the vendor, for example, through a printed document, facsimile transmission, phone call, on-line access, in person or through any other desired medium. In block 420, the product or service is delivered. In block 5 422, an invoice may be directly sent by the vendor, and in somewhat in parallel, in block 428, the user exercises the role of receiver of the products and services, acting to very receipt of the goods or services. In block 424, the user exercises the accounting role of matching and correlating the various aspects of the purchase, for example, the received products and services, the purchase request, the approval conditions, the purchase order, and the invoice from the vendor. From this point, in block 426, any necessary payment may be finalized or made to the vendor. It is again noted, that these process flow blocks are representative and are not intended to designate an absolute process flow. Variations may be implemented, as desired.

10  
15  
20

Referring now back to block 408, if the dynamic payment cards is to be utilized, flow passes to block 410. By utilizing the dynamic payment card of the present invention, companies may manage a broad range of transactions where purchasing management is desired. As discussed above, the dynamic payment card represents a unique payment identifier that can be associated with a set of dynamic approval parameters for each approved purchase request. These approval parameters may be, for example, approved vendors, dollar amounts, product types, numbers of items, date or time by which the purchase must be made, or any other desired approval criteria. Thus, when a transaction is initiated by an individual possessing the dynamic payment card, approval of the transaction may be controlled by a clearing house based upon the approval information associated with the card and the particular purchase request for which the

transaction is being initiated. In this way, a company or entity may manage purchases, for example, through network accessible rules and processes, regardless of what product or service is being requested in the purchase request and regardless of the market from which product or service is to be purchased.

5

In block 410, the approval parameters are injected into the card processing system and associated with the appropriate dynamic payment card. In block 412, the user of the dynamic payment card places an order with the supplying vendor, for example, through a printed document, facsimile transmission, phone call, on-line access, in person or through any other desired medium. The dynamic payment card is utilized in this purchase as the charging vehicle. In block 414, the product or service is delivered, although it is noted that this delivery may take at any place in the process flow, and does not need to occur at the time of purchase. In block 416, the vendor charges the dynamic payment card. If the charge is approved after correlation and review of the transaction details with the appropriate set of dynamic approval parameters, flow proceeds along two somewhat parallel paths to blocks 432 and 430. If the transaction is not approved based upon the approval information associated with the dynamic payment card for that purchase, the process terminates in block 417 based upon the indication of no approval.

If the process continues, in block 428, a user exercises the role of receiver of the products and services, acting to very receipt of the goods or services. Somewhat in parallel, in block 432, card reporting provides information concerning various transaction details, for example, the vendor name, vendor type, amount charged or other transaction details. In block 434, the credit balance may be decremented. In block 436, a monthly statement or invoice is provided to the

customer through reporting or business document exchange (BDX) provided general ledger (GL) distribution. It is noted that this monthly statement may be generated by the purchasing management system 100, so that a company or entity may have all of its purchases designated on a consolidated statement. In block 430, the user exercises the accounting role of matching and 5 correlating the various aspects of the purchase, for example, the received products and services, the purchase request, the approval conditions, the purchase order, and the invoice from the vendor. From this point, any necessary payment may also be finalized or made to the vendor. It is again noted, that these process flow blocks are representative and are not intended to designate an absolute process flow. Variations may be implemented, as desired.

00013226-1115

Further modifications and alternative embodiments of this invention will be apparent to those skilled in the art in view of this description. It will be recognized, therefore, that the present invention is not limited by these example arrangements. Accordingly, this description is to be construed as illustrative only and is for the purpose of teaching those skilled in the art the manner of carrying out the invention. It is to be understood that the forms of the invention herein shown and described are to be taken as the presently preferred embodiments. Various changes may be made in the shape, size and arrangement of parts. For example, equivalent elements may be substituted for those illustrated and described herein, and certain features of the invention may be utilized independently of the use of other features, all as would be apparent to one skilled in 20 the art after having the benefit of this description of the invention.

**Claims:**

We claim:

1. A method for purchasing management utilizing dynamic payment identifiers and dynamic approval parameters, comprising:

5 receiving a plurality of purchase requests from requestors within an entity; evaluating the plurality of purchase requests with respect to the entity's purchase policies; generating a plurality of sets of approval parameters, each set of approval parameters being associated with an approved purchase request; and associating each set of approval parameters with a dynamic payment identifier so that purchases using the dynamic payment identifier may be correlated to an appropriate set of approval parameters.

10

2. The method of claim 1, further comprising providing access through a network to a plurality of customizable purchasing management rules residing on one or more server systems, receiving through the network the plurality of purchase requests and applying the purchasing management rules to the purchase requests to help generate the approval parameters for approved purchase requests.

15

20 3. The method of claim 2, further comprising notifying an approver of a purchase request, if some action is required from the approver for the purchase request to be approved, and allowing the approver to take the required action through a network accessible approval mechanism.

4. The method of claim 3, further comprising allowing the approver to identify, at least in part, the approval parameters for the approved purchase request.

5 5. The method of claim 1, wherein the purchase requests comprise requests for purchases of products or services from network enabled markets.

6. The method of claim 1, wherein the purchase requests comprise requests for purchases of products or services from non-network enabled markets.

7. The method of claim 1, wherein the dynamic payment identifiers comprise dynamic payment cards.

8. The method of claim 1, further comprising utilizing the dynamic payment identifiers as requestor specific identifiers and wherein the purchase requests include an indication of the dynamic payment identifier of the requestor.

9. The method of claim 2, wherein the network comprises the Internet.

20 10. A method for providing server-based purchasing management services to customer entities through a network, comprising:

providing access through a network to a plurality of customizable purchasing

management rules residing on one or more server systems, the purchasing

management rules providing approval requirements for purchases requested by requestors associated with a customer entity;

receiving through the network a purchase request from a requestor;

applying the purchasing management rules to the purchase request;

5 notifying an approver of the purchase request, if the purchasing management rules require action by the approver for the purchase request to be approved; and

allowing for the approver to take approval action through a network accessible approval mechanism.

11. The method of claim 10, further comprising associating a dynamic payment identifier with an approved purchase request.

12. The method of claim 11, further comprising generating a set of approval parameters for the approved purchase request and associating the set of approval parameters with the dynamic payment identifier.

15

13. The method of claim 12, further comprising correlating a purchase made using the dynamic payment identifier with the purchase request and approving the purchase if the purchase is within the approval parameters.

20

14. The method of claim 13, wherein the approval parameters comprise an identity of a vendor for a requested product or service and a maximum cost amount for the product or service.

15. The method of claim 11, wherein the dynamic payment identifier comprises a dynamic payment card.

16. The method of claim 15, further comprising providing a plurality of dynamic payment cards to a plurality of requestors within an entity so that each request may utilize the dynamic payment card in making purchase requests and in executing approved purchase requests.

17. The method of claim 10, wherein the receiving step comprises receiving a purchase request from a network enabled market, the network enabled market allowing the requestor to identify and select for purchase products or services through the network.

18. The method of claim 17, further comprising allowing the approver to determine one or more approval parameters associated with an approved purchase request from the network enabled market, assigning a dynamic payment identifier to the purchase request, and associating the one or more approval parameters with the dynamic payment identifier.

19. The method of claim 10, wherein the receiving step comprises receiving a purchase request from a market that is not network enabled, the purchase request identifying one or more details concerning a need that the purchase request will address.

20

20. The method of claim 19, further comprising allowing the approver to determine one or more approval parameters associated with an approved purchase request from the non-network

enabled market, assigning a dynamic payment identifier to the purchase request, and associating the one or more approval parameters with the dynamic payment identifier.

21. The method of claim 10 wherein the network comprises the Internet.

5

22. A purchasing management system utilizing dynamic payment identifiers to provide control over purchases of a customer entity, comprising:

one or more systems configured to receive a plurality of purchase requests from a plurality of requestors within an entity and to generate a plurality of sets of approval parameters associated with the plurality of purchase requests; and a plurality of dynamic payment identifiers, at least one dynamic payment identifier being associated with each set of approval parameters, the dynamic payment identifiers allowing purchases made using a dynamic payment identifier to be correlated with an appropriate set of approval parameters.

10  
15  
20  
25  
30  
35  
40  
45

23. The purchasing management system of claim 22, wherein the one or more systems comprise one or more server systems configured to receive through a network the plurality of sets of approval requirements.

20 24. The purchasing management system of claim 23, wherein the server systems are further configured to provide access through the network to a plurality of customizable purchasing management rules residing the server systems and to apply the purchasing management rules to the purchase requests.

25. The purchasing management system of claim 22, further comprising one or more systems configured to store the plurality of sets of approval parameters and the associated dynamic payment identifiers, to receive details of a purchase made using a dynamic payment identifier, to evaluate the purchase against an appropriate set of approval parameters for the purchase request associated with the purchase, and to approve the purchase if the purchase falls within the approval parameters.

5

26. The purchasing management system of claim 22 wherein the dynamic payment identifiers comprise dynamic payment cards.

27. The purchasing management system of claim 22, wherein the purchase requests comprise requests for purchase of products or services from network enabled markets.

15

28. The purchasing management system of claim 22, wherein the purchase requests comprise requests for purchase of products or services from non-network enabled markets.

29. The purchasing management system of claim 23, wherein the network comprises the Internet.

30. A network accessible purchasing management system, comprising:  
one or more server systems accessible through a network that are configured to provide  
access to a plurality of customizable purchasing management rules residing on the  
server systems;  
5 a purchase request subsystem within the server systems configured to receive purchase  
requests through the network; and  
an approval processing subsystem within the server systems configured to apply the  
purchasing management rules to the purchase requests and to allow an approver to  
take approval action, if the purchasing management rules require action by the  
approver for a purchase request to be approved.

10  
31. The network accessible purchasing management system of claim 30, further comprising a  
dynamic payment processing subsystem within the server systems configured to associate a set  
of approval parameters for each purchase request with a dynamic payment identifier to be  
utilized for purchase of the product or service identified in purchase request.

15  
32. The network accessible purchasing management system of claim 31, further comprising  
one or more systems configured to store a plurality of sets of approval parameters and associated  
dynamic payment identifiers, to receive details of a purchase made using a dynamic payment  
20 identifier, to evaluate the purchase against an appropriate set of approval parameters for the  
purchase request associated with the purchase, and to approve the purchase if the purchase falls  
within the approval parameters.

33. The network accessible purchasing management system of claim 31, wherein the dynamic payment identifiers comprise dynamic payment cards.

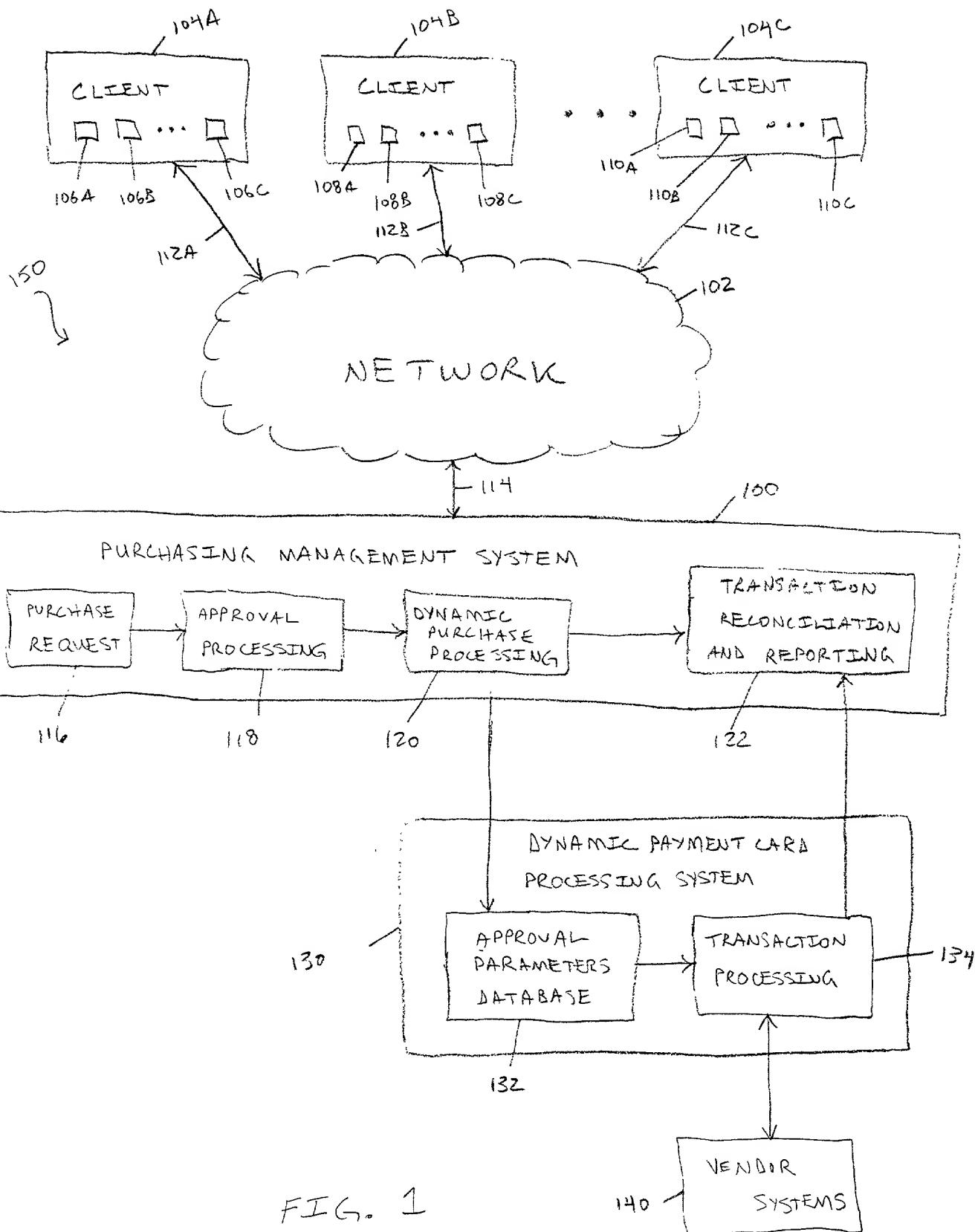
34. The network accessible purchasing management system of claim 33, wherein the  
5 approval parameters comprise an identity of a vendor for a requested product or service and a  
maximum cost amount for the product or service.

35. The network accessible purchasing management system of claim 30, wherein the network comprises the Internet.

## Abstract of the Disclosure

Systems and methods are disclosed for efficiently managing company purchases through the use of dynamic payment identifiers that allow purchases to be processed in view of dynamic approval parameters that are linked to the purchase request for which a transaction is being initiated. More particularly, dynamic payment cards are utilized as dynamic payment identifiers that are provided to company employees, and dynamic approval parameters are linked to employee purchase requests that are processed through server-based purchasing management systems. The disclosed systems and methods allow for the efficient purchasing management of products and services purchased from any desired market, including both network enabled markets and non-network enabled markets. In addition, purchasing management controls are further disclosed that allow purchasing managers to control a wide range of purchasing needs through automatic and manual approval mechanisms.

10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20



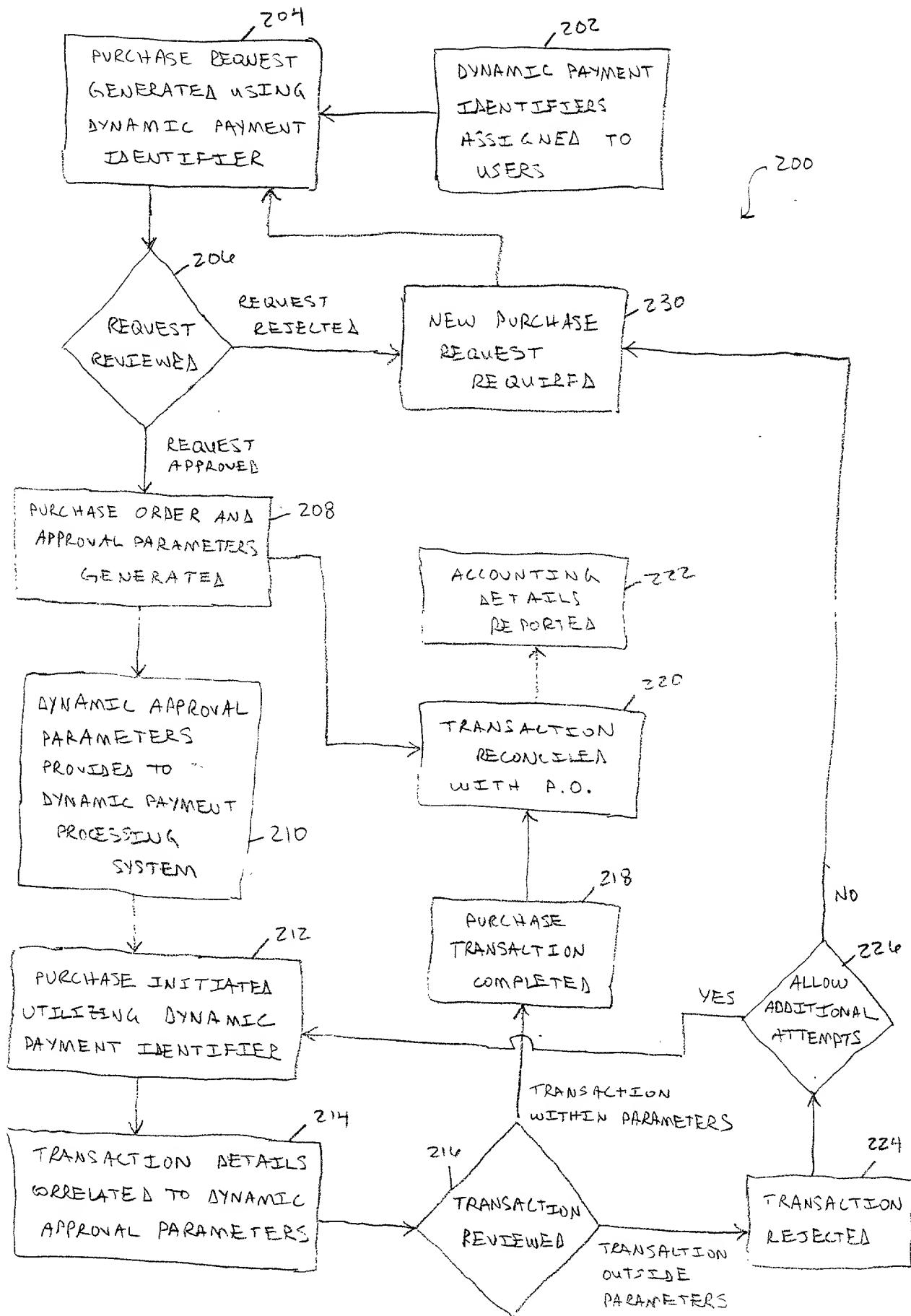


FIG. 2

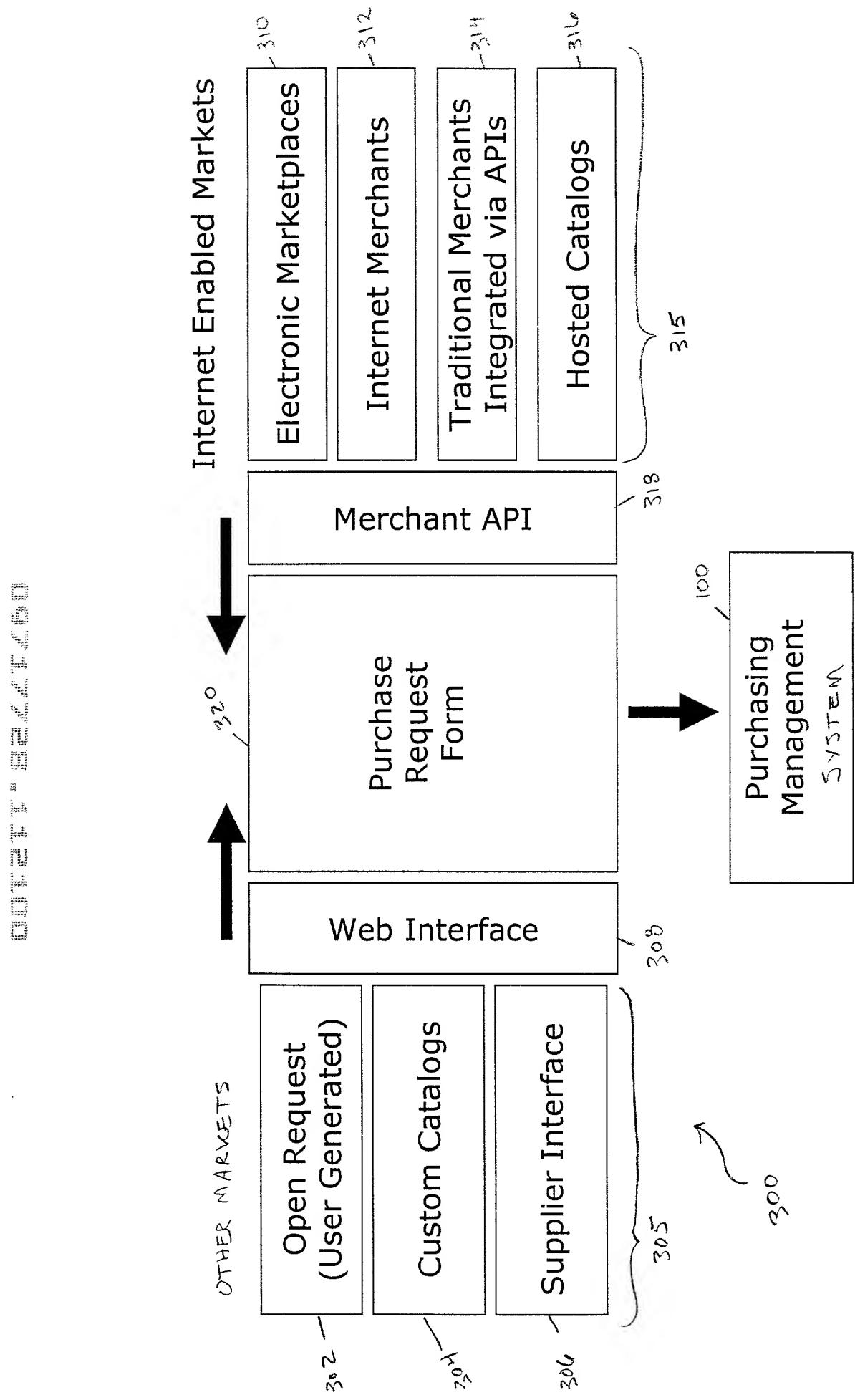


FIG. 3

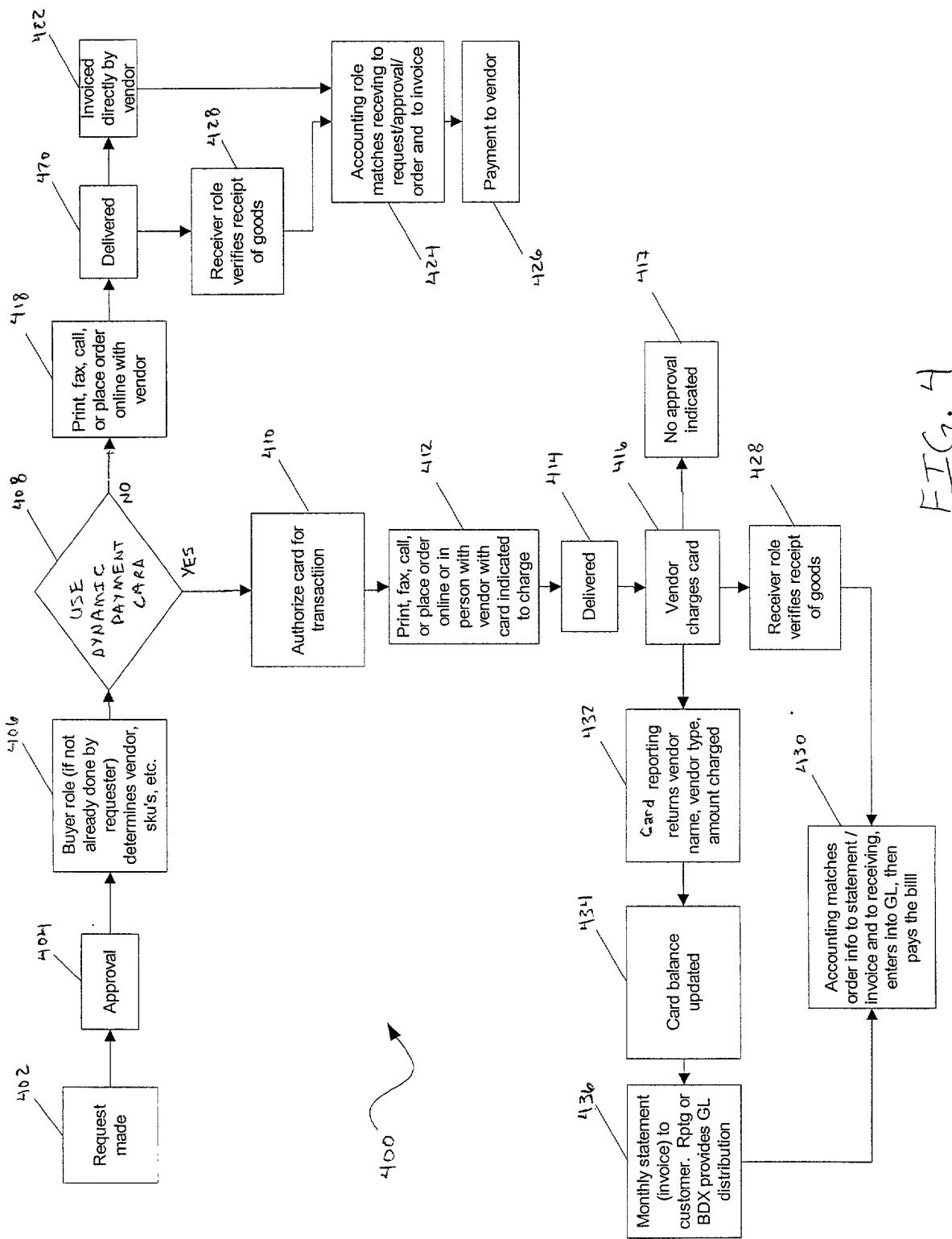


FIG. 4

DECLARATION FOR PATENT APPLICATION AND  
POWER OF ATTORNEY

As an undersigned inventor, I hereby declare that:

My residence, post office address and country of citizenship are as stated directly below my name.

I believe (check one)  I am the original, first and sole inventor  
 I am a joint inventor and the below named inventors are the original and  
first inventors

of the subject matter which is claimed and for which a patent is sought on the invention entitled

**SYSTEM AND METHOD FOR PURCHASING MANAGEMENT UTILIZING DYNAMIC  
PAYMENT CARDS AND DYNAMIC APPROVAL PARAMETERS**

the specification of which

(check one)  is attached hereto.  
 was filed on \_\_\_\_\_,  
as Application Serial No. \_\_\_\_\_,  
and was amended on \_\_\_\_\_.  
(if applicable)

I further declare that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office (hereinafter "the Office") all information known to me to be material to patentability of the subject matter which is claimed as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate indicated below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)	Priority Claimed			
Number	Country	Day/Month/Year Filed	Yes	No
None			—	X

I hereby claim the benefit under 35 U.S. C. §119(e) of any United States provisional application listed below:

Provisional Application Serial No.  
60/242,493

Filing Date  
October 23, 2000

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No. Filing Date  
09/409,316

Status (patented, pending, abandoned)  
Pending -- filed September 28, 1999

Address all correspondence and telephone calls to the following:

Brian W. Peterman  
O'KEEFE, EGAN & PETERMAN, LLP  
1101 Capital of Texas Highway South  
Building C, Suite 200  
Austin, TX 78746  
(512) 347-1611  
(512) 347-1615 (Fax)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: C. Todd Praisner

Inventor's Signature  11/16/00  
Date

Residence: USA

Citizenship: USA

Post Office Address: 74 St. Stephens School Rd. Austin, TX 78746  
(enter "same" if mailing address is same as residence address)

Full name of second joint inventor: Roy H. Kipp, Jr.

Inventor's Signature  11/16/00  
Date

Residence: USA

Citizenship: USA

Post Office Address: 16322 Spotted Eagle Drive, Leander, TX 78641  
(enter "same" if mailing address is same as residence address)

Full name of third joint inventor: Melissa T. Balbach

Inventor's Signature



11/16/00  
Date

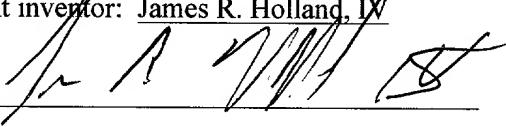
Residence: USA

Citizenship: USA

Post Office Address: 1117 W. 7<sup>th</sup> St. Austin, TX 78703  
(enter "same" if mailing address is same as residence address)

Full name of fourth joint inventor: James R. Holland, IV

Inventor's Signature



11/16/00  
Date

Residence: USA

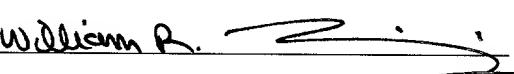
Citizenship: USA

Post Office Address: 11327 Alhambra, Austin, TX 78759

(enter "same" if mailing address is same as residence address)

Full name of fifth joint inventor: William R. Leiserowitz

Inventor's Signature



11/16/00  
Date

Residence: 11019 Galleria Cove, Austin, TX 78759

Citizenship: US

Post Office Address: Same

(enter "same" if mailing address is same as residence address)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: C. TODD PRAISNER, et al.  
Filed: CONCURRENTLY HEREWITH  
For: SYSTEM AND METHOD FOR PURCHASING MANAGEMENT  
UTILIZING DYNAMIC PAYMENT CARDS AND DYNAMIC APPROVAL  
PARAMETERS  
Serial No.: UNKNOWN  
Group Art Unit: UNKNOWN  
Examiner: UNKNOWN  
Atty Dkt: WRKS:002

EXPRESS MAIL CERTIFICATION	
NUMBER: <u>EL 70372002845</u>	
I hereby certify that this paper or fee is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service, postage prepaid, under 37 C.F.R. 1.10 on the date indicated below and is addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231.	
<u>Nov. 21, 2007</u>	<u>Kim Miner</u>
Date	Name

Assistant Commissioner For Patents  
Washington, D.C. 20231

**ELECTION UNDER 37 C.F.R. §§3.71 AND 3.73**  
**AND POWER OF ATTORNEY**

Sir:

The undersigned being Assignee of record of the entire interest in the above-identified application by virtue of an assignment that has been filed in the United States Patent and Trademark Office as set forth below, hereby elects, under 37 C.F.R. §3.71, to prosecute the application to the exclusion of the inventor. A statement under 37 C.F.R. 3.73(b) is also included below.

The Assignee hereby revokes any previous Powers of Attorney and appoints Robert M. O'Keefe, Reg. No. 35,630; Richard D. Egan, Reg. No. 36,788; Brian W. Peterman, Reg. No. 37,908, William W. Enders, Reg. No. 41,735, and Maximilian R. Peterson, Reg. No. 46,469, each an attorney of the firm of O'KEEFE, EGAN & PETERMAN, LLP, as its attorney for so long as they remain with such firm, with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive any Letters Patent, and for one year after issuance of such Letters Patent to file any request for a certificate of correction that may be deemed appropriate.

Pursuant to 37 C.F.R. §3.73, the undersigned has reviewed the evidentiary documents, specifically the Assignment to Works.com Operating Company, referenced below, and certifies that to the best of my knowledge and belief, title remains in the name of the Assignee.

Pursuant to 37 C.F.R. §3.73(b), Works.com Operating Company, a Delaware corporation, states that it is the assignee of the entire, right, and interest in the patent application identified above by virtue of an assignment from the inventor(s) of the patent application identified above. The assignment has been filed in the United States Patent and Trademark Office as set forth below.

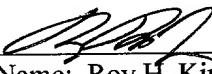
Please direct all communications as follows:

Brian W. Peterman  
O'KEEFE, EGAN & PETERMAN, LLP  
1101 Capital of Texas Highway South  
Building C, Suite 200  
Austin, Texas 78746  
512/347-1611  
FAX 512/347-1615

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

ASSIGNEE:

Works.com Operating Company

By: 

Name: Roy H. Kipp, Jr.  
Title: Chief Technical Officer

Date: 11/16/07

ASSIGNMENT:

Filed concurrently herewith (copy enclosed)  
 Previously filed \_\_\_\_\_ (copy enclosed)  
 Previously recorded  
Date: \_\_\_\_\_  
Reel: \_\_\_\_\_  
Frame: \_\_\_\_\_